

SECTION C Descriptions and Specifications

C.1 DESCRIPTION AND SPECIFICATIONS

The work under this contract shall be performed in accordance with the Statement of Work (SOW) and the Statements of Work that will be specified in individual task orders and in accordance with all other terms and conditions set forth herein.

STATEMENT OF WORK EFFECT OF BIODIESEL ON DIESEL ENGINE NITROGEN OXIDE AND OTHER REGULATED EMISSIONS PROJECT

1.0 BACKGROUND

The Naval Facilities Engineering Service Center (NFESC) was funded by the Environmental Security Technology Certification Program (ESTCP) to perform emissions testing and calculate emissions factors for Department of Defense (DoD) operated diesel engines fueled with various blends of biodiesel. The project involves testing for hazardous air pollutants (HAPs) as well as the criteria air pollutants carbon monoxide (CO), hydrocarbons (HC), nitrous oxides (NO_x), and particulate matter (PM). The project also includes chemical and physical characterization of the PM emissions. The testing will involve numerous test cycles with testing performed both in the laboratory and in the field. Since this testing requires the use of specialized equipment not available at NFESC, part of the testing will be required to be performed by contractors.

2.0 SCOPE

The scope of the required work includes both the actual performance of emissions testing as well as assistance with the preparation of various reports and presentations required by the ESTCP Program Office. Specific emissions testing to be performed will be specified on the ESTCP Program Office approved Demonstration Plan. Emissions testing may include testing for the criteria pollutants, HAPs, and PM chemical and physical characterization. Multiple types of biodiesel or petroleum diesel fuels may be tested. The testing may be required to be performed at the contractor's facility, at a contracted dynamometer, on the road or on-site at a DoD facility. The specific emissions tests to be performed on the applicable test diesel engines and the test location will be specified in individual task orders.

3.0 REQUIREMENTS

The contractor will be provided with various DoD operated diesel engines for emissions testing. The testing may require the contractor to drain and change the engine fuel. In addition, the contractor may be required to store fuel in 55-gallon drums for future testing. The work may be accomplished at the contractor's facility, at a contracted dynamometer, on the road or on-site at a DoD facility. The specific emissions tests to be performed on the applicable test diesel engines and the test location will be as specified in individual task orders.

In addition to the emissions testing, the contractor will provide assistance with the preparation of various reports and presentations required by the ESTCP Program Office. This effort will primarily be performed at the contractor's facility; however, travel to DoD facilities may be necessary in order to inspect test items. Detailed instructions for each report/presentation will be provided on the specific contract task order.

4.0 DELIVERABLES/DELIVERY SCHEDULE

Deliverables will consist of the results from emissions testing as well as assistance with the preparation of required reports and presentations. The assistance will include the resolution of ESTCP Program Office report comments. Delivery schedule will be specified in individual task orders.

5.0 GOVERNMENT FURNISHED EQUIPMENT/INFORMATION

Applicable test engines and ESTCP Demonstration Plans will be provided in individual task orders.

6.0 TRAVEL

The contractor will be required to make multiple trips to various DoD activities primarily located in southern California or Nevada and to the ESTCP program office in Arlington, VA. In addition, the contractor may be required to attend various industry or government sponsored conferences held at various locations throughout the United States. Activities to be visited may include Camp Pendleton, Fort Irwin, Naval Base Ventura County, Nellis AFB and Vandenberg AFB. Other locations may be substituted for any of these activities. The trip duration will be specified on the specific contract task order. The site visits may occur at anytime during the contract period.